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AUTHORS: Lebedev, O. Ye.; Levina, G. N.; Lepekhina, V. T.; Libman, M. L.; Martynkevich, G. M.; Ozerov, L. N.

ORG: none

TITLE: Arrangement for protecting and uncovering evacuated gauge of a device. Class 62, No. 175398 /announced by Special Construction Bureau of the Analytic Instrument Construction, AN SSSR (Spetsialnove konstruktorskoye byuro analiticheskogo priborostroyeniya AN SSSR)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 127

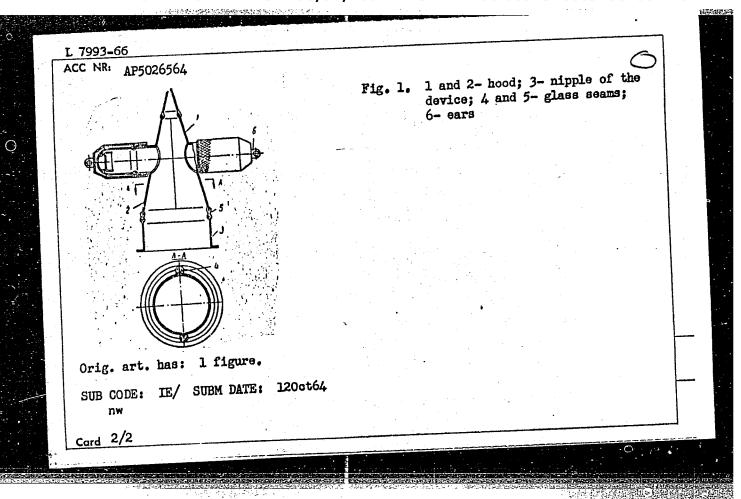
TOPIC TAGS: vacuum, vacuum measurement, vacuum seal

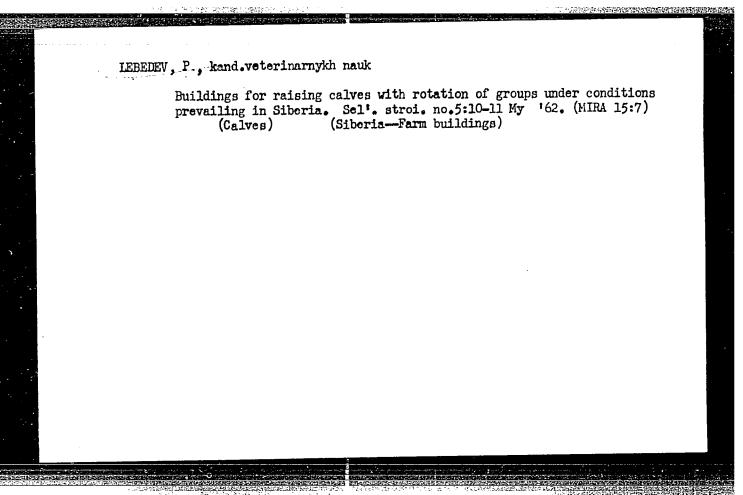
ABSTRACT: This Author Certificate introduces an arrangement for protecting and uncovering an evacuated gauge of a device while introducing the gauge into the investigated medium (see Fig. 1). The arrangement contains a sealed hood connected to the nipple of the device and a mechanism for destroying this hood. To make sure that the investigated medium enters the gauge and to protect the gauge from damage while it is being uncovered, the hood is made up of two metallic parts fixed to one another and to the nipple with airtight glass seams. The parts of the hood are also provided with earlike holders which are connected to the hood-destroying mechanism.

Card 1/2

UDC: 629.19:621.3.083.8:543.27

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On ship and train. Sov.profsoiuzy 19 no.2:21 Ja '63. (MIRA 16:2) 1. Direktor ochno-zaochnoy shkoly No.1 Oktyabr'skoy zheleznoy dorogi, Leningrad. (Railrads—Employees—Education and training) (Leningrad—Correspondence schools and courses)

LEBECYEV, P. [Lebedev, P.]

Investigations concerning the compressive force of light. Magy fiz folyoir 8 no.4:335-354 '60. (EEAI 10:2)

 Egyetemi Fizkai Laboratorium, Moszkva. (Light)

LEBEDEV, P.A.

"The Stability of Transient Motion During a Finite Time Interval,"

Trudy Moskovskogo Aviatsionnogo Instituta //Proceedings, Moscow Institute
of Aviation/, Fascicle 50, Oborongiz Publishing House, 1955

All-Leningrad Seminar on the Theory of Automatic Control (1955-1956)

25(1) AUTHOR:

Lebedev, P.A.

SOV/159-58-3-6/31

TITLE:

An Analytical Method of Investigating the Kinematics of Mechanisms With Plane-Moving Curvilinear Links

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Mashinostroyeniye i priborostroyeniye, 1958, Nr 3, pp 34-43 (USSR)

ABSTRACT:

In this article the author explains a new analytical method for investigating the kinematics of flat, fourlink mechanisms, whose connection rod is represented by a curvilinear link, whereby the symmetry axis of the slot of the latter is given by an equation of the corresponding function. Such mechanisms are found in machines and equipment produced in the USER, for example in the feeders of the snow loders of types 3-3 and 2S-3, in the rotary mechanism of decade step selectors of automatic telephone exchanges and in the link mechanisms of motion picture projectors. For calculating such mechanisms, the known applications of analytical calculations are inadequate. The author based his method of analytical investigation on

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An Analytical Method of Investigating the Kinematics of Mechanisms With Plane-Moving Curvilinear Links

plane kinematic geometry (Ogiyevetskiy, 1931). This method permits expressing all kinematic parameters of mechanisms in algebraic equations. For his method, the author uses the following theorems if two points are given, A $\{(x_A,y_A),(A,A)\}$ and C $\{(x_C,y_C),(x_C,B_C)\}$ in two rectangular coordinate systems located in one plane, the angle of rotation of the coordinate axes is determined by the formula:

$$t = \text{arc tg} \frac{(y_{\mathbf{c}} \cdot y_{\Lambda})(f_{\mathbf{c}} \cdot y_{\Lambda}) \cdot (x_{\mathbf{c}} \cdot y_{\Lambda})(f_{\mathbf{c}} \cdot y_{\Lambda})}{(x_{\mathbf{c}} \cdot x_{\Lambda})(f_{\mathbf{c}} \cdot y_{\Lambda})(f_{\mathbf{c}} \cdot y_{\Lambda})(f_{\mathbf{c}} \cdot y_{\Lambda})}$$

The author proves this theorem and develops the equation for the aforementioned mechanisms. Figure 3-6 show diagrams of the parameter changes of the kinematics of feeder mechanisms of loaders during the period

Card 2/3

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SOV/159-58-3-6/31

An Analytical Method of Investigating the Kinematics of Mechanisms With Plane-Moving Curvilinear Links

of one turn of the crank. There are 6 diagrams and

5 Soviet references.
This article was presented by the
Kafedra "Teoriya mekhanizmov i mashin" Leningradskogo
tekstil'nogo instituta (Chair "Theory of Mechanisms
and Machines" of the Leningrad Textile Institute)

SUBMITTED:

March 24, 1958

Card 3/3

LEBEDEV, P. A.

Bee Culture

Increasing the firmness of comb foundations Pchelovodstvo 29, no. 6, June 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1957, Uncl.

IMBERNAY, P. A.

eshche o prioritete russkoy tekhnicheskoy nauki. (O Zakone Drobleniya B. L. Kirpicheka). Mekhanizatsiya Stroit-Va, 1949 No. 7, C. 1-2.

SO: LETOPIS' NO. 31, 1949

Lehedev, P.A.

PHASE I BOOK EXPLOITATION

sov/4137

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po tochnosti v mashinostroyenii i priborostroyenii

Trudy, vyp. 14 (Transactions of the Institute of Machine Science, Academy of Sciences USSR. Seminar on Accuracy in Machinery and Instrument Manufacture, no. 14) Moscow, 1960. 84 p. Errata slip inserted. 2,200 copies printed.

Editorial Board: N.G. Bruyevich (Resp. Ed.), Academician; G.G. Baranov, Doctor of Technical Sciences; M.L. Bykhovskiy, Doctor of Technical Sciences; A.P. Vladziyevskiy, Doctor of Technical Sciences; B.G. Dostupov, Doctor of Technical Sciences; M.I. Kochenov, Candidate of Technical Sciences; Yu. V. Lyubatov, Candidate of Technical Sciences; D.N. Reshetov, Doctor of Technical Sciences; V.I. Sergeyev, Candidate of Technical Sciences; and A.S. Shatalov, Doctor of Technical Sciences; Ed. of Publishing House: P.F. Zolotov; Tech. Ed.: S.G. Markovich.

PURPOSE: This collection of articles is intended for scientific workers and design engineers.

Card 1/4

Transactions of the Institute (Cont.)

BOV/4137

3

20

COVERAGE: The book contains articles dealing with the accuracy of the rotating mechanism in a ten-position selector for the dial-telephone system, with bridge-type computing and measuring devices, with calculation of allowances for turbine blades, and with investigations of linear electric circuits and accuracy in automatic machining of bearing rings. No personalities are mentioned. References accompany each article.

TABLE OF CONTENTS:

Lebedev, P.A. Investigation of the Accuracy of the Mechanism for Revolving the Ratchet Cylinder of a Ten-Position Selector of the Dial-Telephone System The author discusses the construction and operating principles of the ten-position selector used in the dial-telephone system and presents an approximate analytical method for determining kinematic parameters of the mechanism and errors in the ratchet-pawl engagement.

Sergeyev, V.I. Effect of Inertia Loads, Dry Friction, and Backlash on Performance of Bridge-Type Computing and Measuring Instruments The author presents an analytical method for determining control time and overshoot for a bridge-type multiplier with automatic actuation. The effect of inertia loading, dry friction, and backlash in gear-type speed reducer are taken into account.

Card 2/4

Transactions of the Institute (Cont.)

807/4137

Matevosyan, P.A. Investigating the Accuracy of Complex Devices With Closed Circuits

35

The author investigates some problems of the accuracy of complex mechanical and electronic devices with closed circuits [kinematic chains of gear-cutting machines, mechanical and electronic computers of implicit functions, etc.]. The interrelation between input and cutput parameters of these circuits is described by algebraic equations. The accuracy and errors of the whole system are calculated from known accuracies and errors of component elements.

Fridlender, I.G. Methods of Check Calculations of Tolerances for Turbine-Rotor Blades

44

A method is presented for calculating dimensional tolerances and for determining physical-mechanical properties for turbine-rotor blades in order to insure the natural dynamic frequency of the blades in a speed range far enough from the operating speed to avoid resonance. Analytical and experimental methods for determining the values of partial derivatives of basic equations and vibration intensification coefficients (showing the effect of dimensional and physical-mechanical changes of blades on their natural frequency) are discussed.

Card 3/4

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Transactions of the Institute (Cont.) SOV/4137 Lymbatov, Yu. V. On a Method of Determining Errors in Linear Electric Circuita With Resistance Elements The term errors here weams the difference between nominal and actual 69 values of parameters. The author presents an analytical method for determining coefficients showing the influence of errors and inaccuracies in assembling (parasitic parameters) on the functioning of linear resistance circuits. Likhacheva, Ye. A., and V.I. Sergeyev. Investigation of Some Accuracy Machining Bearing Rings on Transfer Machines The authors examine (by means of mathematical statistics) the inter-76 relation between errors of the following and preceeding operations in centerless grinding of tracks of external rings of rolling-contact bearings. It is claimed to be the first attempt to describe certain statistical regularity patterns for the operation of a group of automatic grinders used for the machining of rings. AVAILABLE: Library of Congress Card 4/4 VK/pw/mas 10-25-60

POLYAKOV, Vladimir Sergeyevich; BARBASH, Iosif Davidovich; LEBEDEV, P.A., kand.tekhn.nauk, retsenzent; MARKOV, V.G., kand.tekhn.nauk, red.; SIMONOVSKIY, N.Z., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Clutches; design and construction] Mufty; konstruktsii i raschet. Izd.2., dop. i perer. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 346 p. (MIRA 13:3) (Clutches (Machinery))

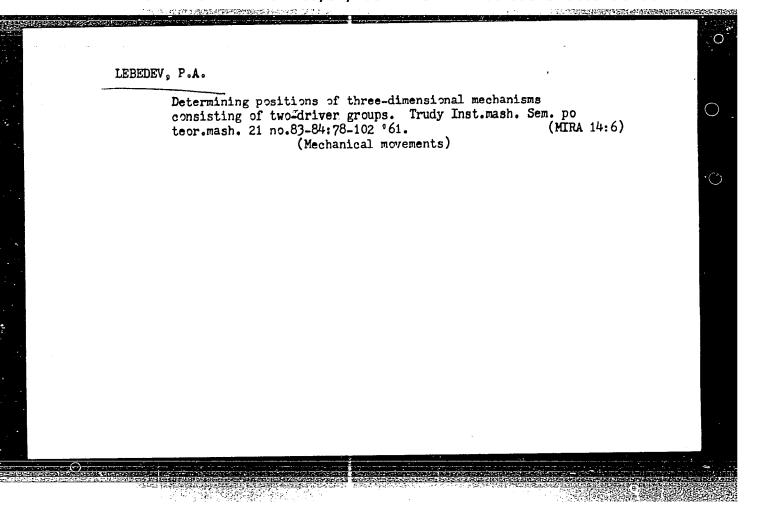
LEBEDEV, P.A.; MARKEVICH, A.A.

Determining inertia moments of coiled springs. Izv.vys.ucheb. zav.; tekh.tekst.prom. no.2:134-137 '59. (MIRA 12:6)

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova.

(Textile machinery--Testing)

(Moments of inertia)



FOTEYEV, S.P., otv.red.; LEBEDKY, P.A., red.; GOLUB, N.V., red.; DOYCHENKO, G.P., red.; IKHEL'ZON, S.M., red.; MARKOV, I.G., red.; SAF'YAN, A.Yu., red.; MARKUSIK, N., red.; SHAFETA, S., tekhn.red.

[Latest developments in woodpulp and paper production] Novoe v tselliulozno-bumazhnom proizvodstve. Kiev. Gos.izd-vo tekhn.lit-ry USSR, 1960. 93 p. (MIRA 14:3)

1. Ukrainskiy nauchno-issledovatel skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Woodpulp)

KOLCHIN, Nikolay Ioasafovich, zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhnicheskikh nauk, prof.; MARKEVICH, A.A., kand. tekhn. nauk, retsenzent; LESEDEV, P.A., kand. tekhn. nauk, retsenzent; GARBARUK, V.N., kand. tekhn. nauk, red.; VASIL'YEVA, V.P., red. izd-va; ONISHCHENKO, R.N., red. izd-va; POL'SKAYA, R.G., tekhn. red.

[Mechanical engineering] Mekhanika mashin. Moskva, Mashgiz. Vol.1. [Structure and kinematics of mechanisms. Geometrical and kinematic analysis and synthesis of mechanisms] Struktura i kinematika mekhanizmov, geometricheskii i kinematicheskii analiz i sintez mekhanizmov. Izd.2., perer. 1962. 549 p. (MIRA 15:3)

(Mechanical engineering) (Mechanical movements)
(Gearing)

LEBEDEV, P.A.

Kinematics of the three-dimensional mechanism of the harness lifting dobbies on looms. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.3:135-142 '61. (MIRA 14:7)

1. Leningradskiy tekstil'nyy institut im. S.M. Kirova. (Looms)

LEBEDEV, P.A.

Analytic determination of the parameters of kinematics of flat bar linkages. Trudy Inst.mash.Sem.po teor.mash. 22 nc.87: 21-30 '61. (MIRA 14:3)

LEBEDEV, P.A., kand.tekhn.nauk

Determining kinematic parameters for some plane four-par linkages. Izv.vys.ucheb.zav.; mashinostr. no.2:59-69 '62. (MIRA 15:5)

Analytic determination of displacements of three-dimensional three-bar linkages with adjoining levers. Izv.vys.ucheb.zav.; prib. 5 no.4:115-119 '62. (MIRA 15:9) 1. Leningradskiy tekstil'nyy institut imeni S.M.Kirova. Rekomendovana kafedroy detaley mashin. (Mechanical movements)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020012-6"

LEHEDEV, P.A., kand.tekhn.nauk, dotsent

Kinematics of a three-dimensional crankgear. Izv.vys.ucheb.zav.;
mashinostr. no.6:11-15 '62. (MIRA 15:11)

1. Leningradskiy tekstil'nyy institut.
(Machanical movements)

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ANANOV, G.D., doktor tekhn. nauk; LEEEDEV, P.A., kand. tekhn. nauk, red.; BARDINA, A.A., tekhn. red.

[Kinematics of three-dimensional hinged mechanisms of agricultural machines] Kinematika prostranstvennykh sharnirnykh mekhanizmov sel'skokhoziaistvennykh mashin. Moskva, Mashgiz, 1963. 219 p.

(MIRA 16:9)

(Agricultural machines--Transmission devices)

MASHNEV, M.M.; KRASKOVSKIY, Ye.Ya.; LEBEDEV, P.A.; ROMADIN, I.S.;
VLADIMIROV, V.M., red.; FUFAYEVA, G.I., red.izd-va;
BARANOV, Yu.V., tekhn. red.

[Theory of mechanisms and machines and machine parts] Teoriia mekhanizmov i mashin i detali mashin. Vladimir, Rosvuzizdat, 1963. 446 p.

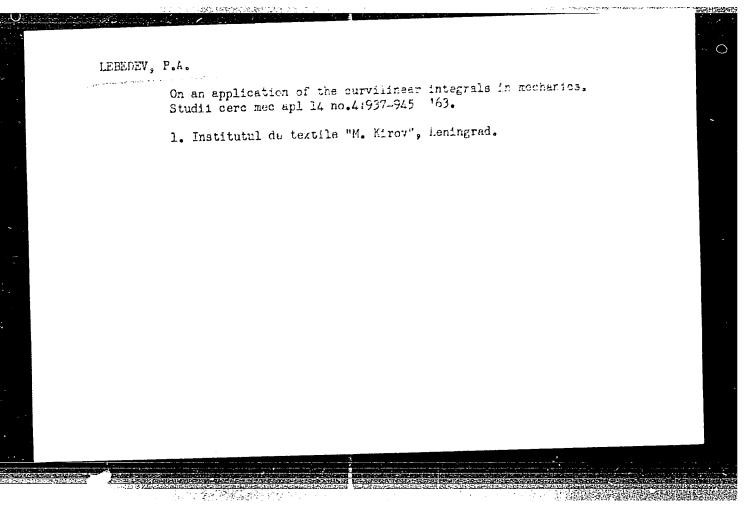
(Machinery--Design and construction)

(Mechanisms--Design and construction)

LEBEDEV, P.A.

Determining the displacements of mechanisms with contacting levers. Izv.vys.ucheb.zav.; prib. 6 no.3:134-142 '63. (MIRA 16:9)

l. Leningradskiy tekstil'nyy institut imeni $S_{\bullet}M_{\bullet}$ Kirova. Rekomendovana kafedroy teorii mekhanizmov i mashin.



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RUZINOV, L.D.; LEBEDEV, P.A., kand. tekhn. nauk, retsenzent; VUL'FSON, I.I., kand. tekhn. nauk, retsenzent; VAL'KOVSKIY, A.A., kand. tekhn. nauk, red. [deceased]

[Design of mechanisms based on geometric transformations]
Proektirovanie i raschet mekhanizmov na osnove geometricheskikh preobrazovanii. Moskva, Mashinostroenie, 1964.
147 p. (MIRA 17:12)

KOPYLOV, B.F.; LEBEDEV, P.A.; CHERDANTSEVA, M.V. (Leningrad)

"Small-base semiconductor film transformers as applied to the investigation of dynamic parameters of mechanisms".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

LEBEDEV, P.A., ORESTOVA, A.V.

Determining the parameters of the movement of batten mechanisms. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.6:123-130 164.

(MIRA 18 3)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti imeni Kirova.

LEBEDEV, P.A.; YEFRON, A.I.

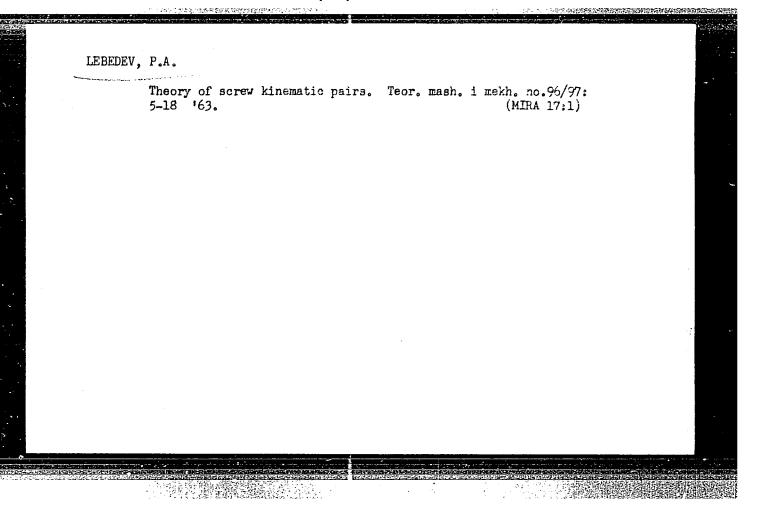
Plane oscillations of a connecting rod with variable cross section ard curvilinear axis of symmetry. Bul Inst Politch 26 no.5:23-37 S-0 164

1. Leningrad Textile Institute.

LEBEDEV, P.A.; SIDOROV, N.G.

Studying the interaction between a crawler tractor and the ground in turns. Trakt. i sel'khozmash. no.3:7-10 Mr '65.

(MIRA 18:5)



SHPANOVA, Lyubov' Grigor'yevma; LEBEDEV, P.B., red.; MEDVEDEVA, R.A., jekhn. red.; YELAGIN, A.S., tekhn. red.

[A party committee and the brigades of communist labor] Partiinyi komitet i brigady kommunisticheskogo truda. Moskva, Izd-vo "Sovetskaia Rossiia," 1960. 78 p. (MIRA 14:7)

1. Zamestitel' sekretarya partkoma Novosibirskogo metallurgicheskogo zavoda imeni A.N.Kuz'mina (for Shpanova)

(Novosibirsk—Steel industry)

LARIONOV, Aleksey Nikolayevich,; LEBEDEV, P.B., red.; LUKINA, L.Ye., tekhn. red.

[School and life; practices of the party organization in Ryazan Province] Shkola i zhizn'; iz opyta raboty Riazanskoi oblastnoi partiinoi organizatsii. Moskva, Izd-vo "Sovetskaia Rossiia," 1958. 61 p. (MIRA 11:12)

1. Pervyy sekretar' Ryazanskogo oblastnogo komiteta KPSS(for Larionov)
(Education, Cooperative)
(Ryazan Province--Agriculture)

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KOROLEY, Vladimir Pavlovich; LEBEDEY, P.B., red.; YELAGIN, A.S., tekhn.red.

[Rural Communists and the problems of farm mechanization]
Sol'skie kommunisty i voprosy mekhanizatsii sel'skogo khoziaistva. Moskva, Izd-vo "Sovetskaia Rossiia." 1960. 43 p.

(MIRA 13:7)

(Serpukhov District--Farm mechanization)

BOL'SHAKOVA, Valentina Pavlovna, doyarka; LEBEDEV, P.B., red.; YELAGIN, A.S., tekhm.red.

[My experience in increasing the milk yield of primapara heifers]
Moi opyt razdoia pervotelok. Moskva, Izd-vo "Sovetskaia Rossia,"
1961. 15 p. (MIRA 14:6)

1. Kolkhoz imeni Lenina Lyubytinskogo rayona Novgorodskoy oblasti (for Bol'shakova).

(Dairying)

POPOV, Aleksandr Mikhaylovich, svinar'-mekhanizator; LEBEDEV, P.B., red.;
KLYUCHEVA, T.D., tekhn.red.

[Producing 646 kilograms of pork every day] Kazhdyi den! 646 kilogrammov svininy. Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 19 p.

(MIRA 14:6)

1. Sovkhoz "Borovichanin" Novgorodskoy oblasti (for Popov).

(Novgorod Province—Swine)

LEBEDEV, P.B., otv. za vypusk.

[Leading agricultural workers talk about their experience; materials of the Conference of Leading Agricultural Workers of Siberia, Novosibirsk, 1961] Peredoviki sel'skogo khoziaistva o svoem opyte; materialy soveshchaniia peredovikov sel'skogo khoziaistva Sibiri, Novosibirsk, 1961. Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 162 p. (MIRA 14:7)

1. Soveshchaniye peredovikov sel'skogo khoziaistva Sibiri, Novosibirsk, 1961.

(Siberia--Agriculture)

DROTI, N .: LEBEDEY, P.D. Extrapleural pneumothorax in pulmonary tuberculosis. Probl.tub. no.2:40-44 Mr-Ap 154. 1. Iz tuberkuleznogo sanatoriia (glavnyy vrach N.Droti) v Tirane (Albaniia). (PNEUMOTHORAX, ARTIFICIAL, *extrapleural)

CIA-RDP86-00513R000929020012-6" APPROVED FOR RELEASE: 08/31/2001

LEFEDEV. F. D. and A. A. EHOHOKIN,

Fabrichno-zavodskala teplotekhnika. Dop. v kachestve ucheln. posobiia dlia energeticheskikh vuzov i fakultetov. Moskva, Gosenergoizdat, 1948. 372 p. dia rs.

Bibliography: p. 370

(Industrial thermotechnics.)

DLC: TJ265.L37

CU CtY MH

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

Intervey, r. 5.

36062 Fr costelltormiya kholodil'riya astirivka. Za ekotoriya tipliva, 2049, No. 11,
5. 33-34

S0: Letopis' Zhurnal'nykh Statey, Vol. 45, 1949

LEBEDEV, T. D.

157T28

USSR/Electricity - Synchronous Lachines Generators, Thermal Protection Jan 50

"Investigation of Heat Transfer in Electric Machines," Docent V. V. Yen'ko, Cand Tech Sci, Docent P. D. Lebedev, Cand Tech Sci, Moscow Power Eng Instimeni Molotov, 6 pp

"Elektrichestvo" No 1

Gives results of experimental investigation of heat transfer from head parts of stator winding. Investigations were carried out on synchronous generator winding and in aerodynamic tube (at various air-flow velocities). Results showed previous formulas obtained by authors and other investigators were not entirely correct due to considerable turbulence of flow occurring in this region of the stator. As result of present investigation on actual generator, more accurate formulas were obtained. Submitted 12 Oct 49.

FA 157T28

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LECELLEV, r. b.

Drying apparatus; textbook. Moskva, Cos. energ. izd-vo, 1v52. 264 p. (54-18)40)

Tr563.F5
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LEBEDEV, P. D. Generatory tepla dlya radiatsionny kh sushil'nykh ustanovok.

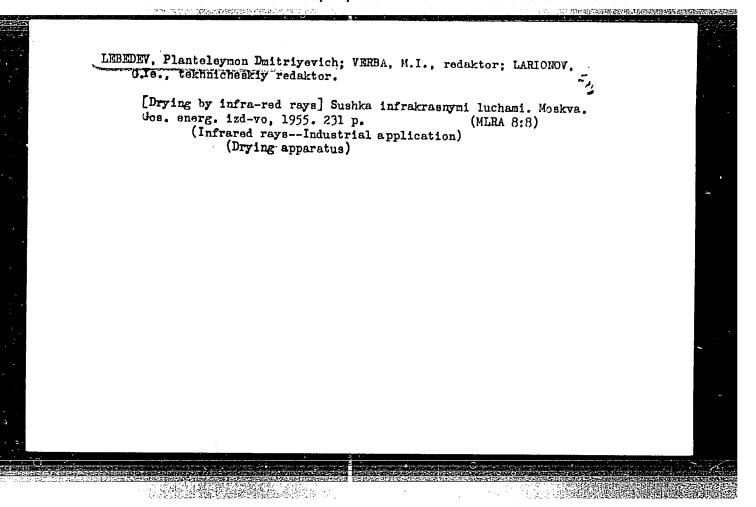
M-L, Gosenergoizdat, 1954. (1), 56 s. s 111.20 sm. (M-vo elektrostantsiy

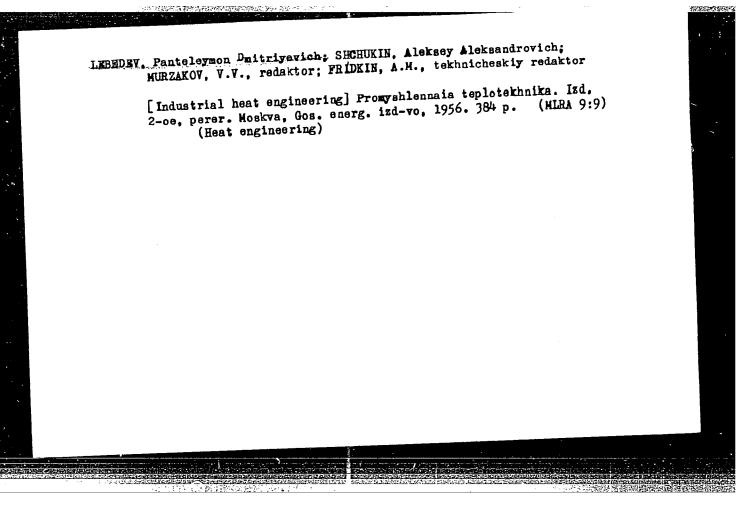
No. 1/27) 5.5000 skz. 1 r. 60 k. Avt. ukazan na 2-y s. obl. - Bibliogr:

(55-664, zh)

66.047 + (016.3)

S0: Knizhnaya LeTopia, Vol. 7, 1955





LEBEPEY, P.D.

AID P - 4366

Subject

: USSR/Heat Engineering

Card 1/1

Pub. 110-a - 11/19

Author

: Lebedev, P. D., Dr. Tech. Sci. Prof. Moscow Power

Title

: Some problems on the method of experimental research

on heat-transfer and mass-exchange.

Periodical: Teploenergetika, 4, 44-48, Ap 1956

Abstract

: A review of the design of instruments and installations recently devised for research on the transfer of heat and matter in heat exchangers. Six diagrams. Ten Russian references, 1947-1955; one, 1954 English ref-

erence.

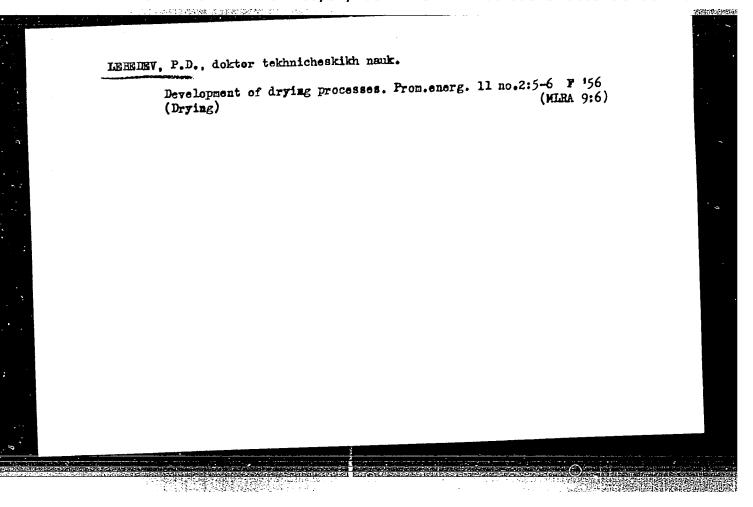
Institution: None

morcow Cower Engineering doct.

Submitted

: No date

CIA-RDP86-00513R000929020012-6" APPROVED FOR RELEASE: 08/31/2001



LEBEDEV, 3. D. (Doctor of Technical Sciences)

Moscow. Energeticheskiy institut

Istoriya energeticheskoy tekhniki SSSR v trekh tomakh. t. 1: Teplotekhnika

(History of Power Engineering in the USSR in Three Volumes. v. 1: Heat Engineering)

Moscow, Gosenergoizdat, 1957, p. 479, 5,000 copies printed.

Ed.-Compiler: Konfederatov, I. Ya., Doctor of Technical Sciences; Authors: Badyl'kes, I. S., Doctor of Technical Sciences; Belinsky, S. Ya., Candidate of Technical Sciences; Gimmel'farb, M. L., Candidate of Technical Sciences; Kalafati, D. H., Sciences; Gimmel'farb, M. L., Candidate of Technical Sciences; Kovalev, A. P., Doctor Candidate of Technical Sciences; Kertselli, L. I., Professor; Kovalev, A. P., Doctor of Technical Sciences; Lavrov, of Technical Sciences; Konfederatov, I. Ya., Doctor of Technical Sciences; Lavrov, Doctor of Technical Sciences; Lebedev, P. D., Doctor of Technical Sciences; Semenenko, of Technical Sciences; Satanovskiy, A. Ye., Doctor of Technical Sciences; Semenenko, of Technical Sciences; Satanovskiy, A. Ye., Doctor of Technical Sciences; Chistyakov, S. F., Sciences; Sokolov, Ye. Ya., Doctor of Technical Sciences; Chistyakov, S. F., Candidate of Technical Sciences, and Shcheglyayev, A. V., Corresponding Hember, Gandidate of Technical Sciences; Editorial Board of set: Bel'kind, L. D., Doctor of USSR Academy of Sciences; Editorial Board of set: Bel'kind, L. D., Doctor of Technical Sciences; Doctor of Technical Sciences; Zolotarev, T. L., Doctor of Technical Sciences; Doctor of Technical Sciences; Kirillin, V. A., Corresponding Member, Iabash, S. V., Doctor of Technical Sciences; Kirillin, V. A., Corresponding Member,

USSR Academy of Sciences; Konfederatov, I. Ya., Doctor of Technical Sciences; Margulova, T. Kh., Doctor of Technical Sciences; Meshkov, V. V., Doctor of Technical Sciences; Petrov, G. N., Doctor of Technical Sciences; Sirotinskiy, L. I., Doctor of Technical Sciences; Styrikovich, M. A., Corresponding Member, USSR Academy of Sciences; and Shneyberg, Ya. A., Candidate of Technical Sciences. Ed.: Matveyev, G. A., Doctor of Technical Sciences; Technical Ed.: Medvedev, L. Ya.

PURPOSE: The book is intended for technicians in all branches of heat engineering.

COVERAGE: This book presents the development of the basic branches of heat engineering in the Soviet Union and it is the first volume of 3 volumes entitled History of Power Technology in the USSR. The first chapter gives a concise history of the development of heat engineering from its very beginning to the middle of the 19th Century when the fundamentals of the theoretical heat engineering were established. A detailed description of the development of heat engineering in pre-Revolutionary Russia is given in Ch. 2 to 5 and its status before 1917 is described. In the main part of the volume, Ch. 6 to 16, the development of various branches of the Soviet heat engineering is presented. The theoretical fundamentals of heat engineering, of manufacturing boilers, turbine installations of heat power plants, district heating, heat control, automation of thermal processes, and cooling techniques are covered extensively. Each chapter is supplemented with a bibliography. The book is illustrated with photographs, charts and diagrams, worked out by the authors of the respective chapters. At the end of the book there is a chronological list of significant events in the development of heat engineering.

GERASIMOV, S.G. professor, redaktor; KAGAN, Ya.A., kandidet tekhnicheskikh nauk, redaktor; INBEDEV. P.D., professor, glavnyy redaktor; LUKNITSKIY, V.V., professor, redaktor [decessed]; SHEYNDLIR, A.Ye., professor, redaktor; ATZENSHTAT, I.I., redaktor; VORONIN, K.P., tekhnicheskiy redaktor

[Heat engineering handbook] Teplotekhnicheskii spravochnik. Moskva, Gos.energ.izd-vo. Vol.1. 1957. 728 p. (MIRA 10:9)

(Heat engineering)

LEBEDEV, P.D.

3-12-17/27

AUTHOR:

TITLE:

Lebedev, I.I. The Scientific-Methodical Conference on Automation and Telemechanization (Nauchno-metodicheskaya konferentsiya po avtomatizatsii i telemekhanizatsii)

PERIODICAL:

Vestnik Vysshey Shkoly, 1957, # 12, pp 77 - 79 (USSR)

ABSTRACT:

Analyses of present training conditions in the fields of automation and telemechanization of technological processes revealed that the educational programs of these special disciplines do not provide the engineers with sufficient knowledge in the field of technology dealing with the production of automatic, telemechanical and measuring devices.

A scientific methodical conference was convened in June 1957 by the USSR Ministry of Higher Education. Present were vuz professors and teachers and leading workers of specialized enterprises. The plenary sessions dealt with the following reports: P.D. Lebedev on the conditions of engineering training in the fields of automation, telemechanization, measuring technics and calculation devices. N.S. Torocheshnikov on engineering training in the automation and telemechanization of chemical production. Three directions are distinguished in the training of en-

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LEBEDEN P. D.	19(1): 15(6) FRAME I BOOK EXPLOITATION SOW/199) Toploteknatobaskly sprawochalk, t. 2 (Heat Engineering Handbook, Fol. 2) Moscow, dosenergoixdst, 1958. 672 p. 40,000 eoptiers (111 Instructors of the Noscow Power Institute); T. Lamitsakly, Doctor of Technical Sciences (Becased); T. Lamitsakly, Doctor of Technical Sciences (Becased); Todoricar of Technical Sciences; N.L. Clamed Iffreb, Candidate of Technical Sciences; N.L. Clamed Iffreb, Candidate B. Goldmicher, Gandidate of Technical Sciences; Candidate of Technical Sciences; N.R. Sciences; Sciences, F. C. Dudikov, Candidate of Technical Sciences; Sciences, F. C. Dudikov, Candidate of Technical Sciences; Sciences, F. C. Dudikov, Candidate of Technical Sciences; Sciences, F. C. Dudikov, Doctor of Technical Sciences; Sciences, Candidate of Technical Sciences; Sciences, A.W. Berby, Candidate of Technical Sciences; Sciences, Candidate of Technical Sciences; Sciences, A.W. Berby, Sciences, Candidate of Technical Sciences; Sciences, Candidate of Technical Sciences; Sciences, A.W. English, Professor (December) Card 1,6	Heat Engineering (Con.) Full Cont. Ing and polytechnical vurse. It may also be used by engineering and technical vurse. It may also be used by engineering and technical personnel engaged in the design, construction and technical personnel engaged in the design, construction and industrial plants. COVERAGE This is the second volume of thermoslectric power stations and industrial plants. This volume deals the Moscow Fower Engineering listituse. This volume deals with thermo-electric power plants, heating and ventilating systems, industrial plant thermal equipment, heat measuring instruments and automatic control of thermal processes. Special characteristic systems and automatic control of thermal processes. Special characteristic systems and best pumps, industrial furnaces, produced to boller materials, plinis and event equipment, transporting and franching and thermal control of the control	

LEBEDRY, P.D., doktor tekhn. nauk, prof.; SOROKIN, A.F., doktor tekhn. nauk, prof.

Mechanism of heat and mass transfer in boiling solutions. Izv. vys. ucheb. zav.; energ. no. 1:80-85 Ja '58. (MIRA 11:7)

1. Moskovskiy energeticheskiy institut (for Lebedev). 2. Ivenovskiy energeticheskiy institut im. V.I.Lenina (for Sorokin).

(Heat--Transmission) (Mass transfer) (Solution(Chemistry))

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PHASE I BOOK EXPLOITATION

SOV/1499

Teplotekhnicheskiy spravochnik, t. 2 (Heat Engineering Handbook, Vol. 2) Moscow, Gosenergoizdat, 1958. 672 p. 40,000 copies printed.

Compilers (All Instructors of the Moscow Power Institute);
V.V. Luknitskiy, Doctor of Technical Sciences (Deceased);
Ye.Ya. Sokolov, Doctor of Technical Sciences; P.D. Lebedev,
Doctor of Technical Sciences; M.L. Gimmel'farb, Candidate
of Technical Sciences; N.V. Lavrov, Doctor of Technical
Sciences; G.P. Ivantsov, Candidate of Technical Sciences;
B.N. Golubkov, Candidate of Technical Sciences; A.N. Sherstyuk,
Candidate of Technical Sciences; S.P. Nikitin, Candidate of
Technical Sciences; S.F. Chistyakov, Candidate of Technical
Sciences, Ye.G. Dudnikov, Doctor of Technical Sciences; A.M.
Baklastov, Candidate of Technical Sciences; and M.I. Berba,
Candidate of Technical Sciences. Ed.: I.I. Ayzenshtat;
Tech. Ed.: K.P. Voronin, and G.Ye. Larionov; Eds. of Set:
S.G. Gerasimov, Professor; Ya.A. Kagan, Docent; P.D. Lebedev,
Professor (Chief Ed.) and V.V. Luknitskiy, Professor (Deceased).

Card 1/6

Heat Engineering (Con.)

SOV/1499

PURPOSE: This book is intended for students of power engineering and polytechnical vuzes. It may also be used by engineering and technical personnel engaged in the design, construction and operation of thermal equipment of thermoelectric power stations and industrial plants.

COVERAGE: This is the second volume of a two-volume heat-engineering handbook compiled by a group of professors and docents of the Moscow Power Engineering Institute. This volume deals with thermo-electric power plants, heating and ventilating systems, industrial plant thermal equipment, heat measuring instruments and automatic control of thermal processes. Special chapters are devoted to boiler materials, piping and other equipment. Brief information on the following subjects is given: heat-exchangers, evaporating and fractionating equipment, refrigeration systems and heat pumps, industrial furnaces, production, transportation and storage of fuel gases, pumps, fans, compressors, hoisting and transporting mechanisms, and temperature, pressure and flow measuring instruments. Standard graphical symbols for heat-power plant equipment and instruments and also the letter symbols and corresponding dimensions of various engineering quantities are given. Changes in the GOST (All-

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Heat Engineering (Cont.) SOV/1499 Union State Standards) which occurred after compilation of the handbook are noted. No personalities are mentioned. References appear at the end of each chapter. TABLE OF CONTENTS: Foreword 3 PART 2. HEAT POWER (Continuation) 5 Section 3. Electric Power Plants. Heating Networks Ch. 18. Thermoelectric Power Plants 5 Ch. 19. Heating Networks and Systems 69 PART 3. THERMAL EQUIPMENT FOR INDUSTRIAL PLANTS 116 Ch. 20. Heat Exchangers 116 Card 3/6

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Heat Engineering (Cont.)

Supplement

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LEBEDEV, P.D.

3-58-3-3/32

AUTHOR:

Lebedev, P.D., Professor, Doctor of Technical Sciences, Chief of the Main Administration of Polytechnic and Machine-Construction Vuzes, USSR Ministry of Higher Education

TITLE:

Against the Beaten Track in Practical Training (Protiv shablona v proizvodstvennom obuchenii)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, Nr 3, pp 16-20 (USSR)

ABSTRACT:

The author deals with the two forms of practical training; school training workshops and training at enterprises. He describes how this training is conducted at some of the higher technical schools and examines suggestions made to change the method. At many vtuzes, much time is devoted to learning methods of cold and hot machining of metals, and the future specialty of the student is disregarded. The Moskov-skoye vyssheye tekhnicheskoye uchilishche (MVTU) (Moscow Higher Technical School) and the Moskovskiyenergeticheskiy institut (MEI) (Moscow Power-Engineering Institute) are mentioned. In the School training workshops, posters and kinematic drawings are widely displayed. He points to the

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Against the Beaten Track in Practical Training

3-58-3-3/32

radiotekhnicheskiy fakultet (Radio-Engineering Faculty) of the Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute) where the amount of time in the training workshops for cold and hot machining of metals has been considerably reduced. The final practical training of the students is conducted in specialized radioengineering workshops. This organization of work is recommended. He considers the transferring of small mechanical workshops and factories to the vtuzes (suggested by the Gor'kovskiy and Tomskiy politekhnicheskiy institut - Gor'kiy and Tomsk Polytechnic Institutes) as impracticable. Technological practice at an enterprise should be done at advanced plants having foundry, forging, mechanical, assembly and other workshops, and a modern production organization. For the students of the Moscow Higher Technical School this practice lasts 25 days, while for the students of the Moscow Power-Engineering Institute, technological practice is organized differently, and requires 6 weeks. This work often enables the students to obtain very valuable information on their future specialty. The author examines other questions in plant practical training and

Card 2/3

Against the Beaten Track in Practical Training

3-50-3-3/32

in conclusion, stresses the necessity to attach the schools to definite enterprises. There is 1 Soviet reference.

ASSOCIATION:

Glavnoye upravleniye politekhnicheskikh i mashinostroitel'nykh vuzov, Ministerstvo vysshego obrazovaniya SSSR (Main Administration of Polytechnic and Machine-Construction Vuzes of the USSR Ministry of Higher Education)

AVAILABLE:

Library of Congress

Card 3/3

3-58-7-32/36

AUTHOR:

Lebedev, P.D., Doctor of Technical Sciences, Professor

TITLE:

Higher Technical Education in Sweden (Vyssheye tekhnicheskoye

obrazovaniye v Shvetsii)

PERIODICAL:

Vestnik vysshey shkoly, 1958, Nr 7, pp 84-88 (USSR)

ABSTRACT:

The author, who is the head of the Glavnoye upravleniye politekhnicheskikh i mashinostroitel'nykh vuzov (Central Administration of the Polytechnical and Machine Building Higher Schools), accompanied by the director of the Leningradskaya lesotekhnicheskaya akademiya imeni S.M. Kirova (The Leningrad Academy of Forest Engineering imeni Kirov) Professor V.M. Nikitin, the director of the Leningradskiy korablestroitel'nyy institut (Leningrad Shipbuilding Institute) Dotsent Ye.V. Tovstykh and the Aspirant I.V. Kallistova, visited Sweden in February 1958 and studied the organization of higher technical education in this country. The delegation was very much impressed with its organization.

Card 1/1

High-temperature drying of materials by utilization of the internal vapor-pressure gradient. Trudy MEI no.30:169-178 '58. (MIRA 12:5)

1. Moskovskiy ordena Lenina energeticheskiy institut, Kafedra sushil'nykh i teploobmennykh ustroystv.

(Drying)

5(2) AUTHORS:

Lebedev, P.D., Professor, Doctor of Technical Sciences; Verba, M.I., Docent, Candidate of Technical Sciences; Leonchik, B.I.; Portnov, V.D. and Sadchikov, O.V., Engineers

TITLE:

The Drying of Heated, Inorganic Solutions by Means of Spraying (Sushka raspyleniyem podogretykh neorganicheskikh rastvorov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1959, Nr 2, pp 111-116 (USSR)

ABSTRACT:

When drying heat-resistant, inorganic solutions by spraying them into a stream of hot flue gases, the heat and mass exchange processes may be considerably intensified by heating the solution to a temperature somewhat below its boiling point prior to spraying, maintaining an adequate pressure in the pipeline. A more intensive dehydration is observed with a sudden reduction of the pressure of the heated liquid when the latter leaves the sprayer. The dehydration process is achieved, by the heat of

Card 1/5

The Drying of Heated, Inorganic Solutions by Means of Spraying

the drying agent (flue gas), and by the interior heat of the atomized particles. The preliminary heating of the solution causes a reduction of the viscosity and surface tension, and consequently, it changes the character of the intermediate-phase surfaces and with them the spray dispersion. • Thereby the basic laws are disturbed which are valid for the dispersion of a cold liquid flow. For investigating the basic thermal and hydrodynamic • peculiarities of this drying process, an experimental, semi-industrial drying chamber was built at the Kafedra sushil'nykh i teploobmennykh ustroystv MEI of Drying and Heat-Exchange Equipment of MEI). The drying chamber was built in such a way that one parameter of the process could be changed while all the others were kept constant. Provisions were made to perform the drying in a direct flow and in a counterflow of flue gas, or to feed the drying gases from the sides of the chamber. Figure 1 shows a diagram of the drying unit. The basic series of

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The Drying of Heated, Inorganic Solutions by Means of Spraying

tests was conducted with centrifugal sprayers. A total of 60 experiments was made for which a 50% salt solution was used as experimental liquid. liquid consumption was changed from 70-260 kg/h, the temperature of the liquid was varied from 75-300°C, the pressure of the liquid from 50-150 atm. The temperature of the flue gases was varied from 190-550°C. Kerosene was used as a fuel for heating the drying chamber. Since preliminary heating of the liquid causes a faster crystallization of the dispersed particles, the interaction of the flue gas components with the product is less intensive than when using a cold liquid. The increase of the sulfur content of the dried material did not exceed the maximum permissible value of 0.06% SO,. The processing of the experimental data and their analysis showed that the most favorable drying conditions were obtained at a liquid temperature of 280°C. and at an initial gas temperature of 460°C. The irrigation factor was 0.1 kg of the solution per kg

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The Drying of Heated, Inorganic Solutions by Means of Spraying

of dry gas. The specific fuel consumption for 1 kg of the product was 200-250 g/kg - product. The mass exchange factor was 12-20 kg/m 3 hour. When spray drying cold liquids the mass exchange factor at the same temperature of flue gases amounted to 8-12 kg/m² hour. The effectiveness of interphase surface which means the dispersion of atomized particles. So far, peculiarities of flowing out and disintegrating of a heated liquid stream were not considered in the works of Soviet and foreign scientists. The authors established some characteristical hydrodynamic phenomena of this process and some calculated suggestions for the design of sprayers will be subject of future investigations. The authors only the four types of sprayers used during their experiments: a centrifugal sprayer with one tangential inlet, a centrifugal sprayer with two tangential inlets, a centrifugal sprayer with a special conical atomizer and a conical nozzle. The

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The Drying of Heated, Inorganic Solutions by Means of Spraying

experiments with the centrifugal sprayers showed that their output was reduced by 30-40% when the liquid was heated to 260-290°C, in comparison with the cold liquid. The authors came to the conclusion that the preliminary heating increases the drying efficiency of heat-resistant inorganic liquids. The preliminary heating of the liquid prior to spraying permits the use of flue gases of fuels with a low sulfur content as a drying agent. There are 2 tables, 1 diagram, 1 graph, and 2 Soviet references

ferences.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut

(Moscow Lenin Order-Power Engineering Institute)

PRESENTED: Kafedra sushil'nykh i teploobmennykh ustanovok

(Chair of Drying and Heat Exchange Equipment)

SUBMITTED: November 26, 1958

Card 5/5

10,4000

66175 SOV/143-59-10-13/22

AUTHORS:

5.//75(A)
Lebedev, P.D., Doctor of Technical Sciences, Professor, and Verba, M.I., Candidate of Technical Sciences,

Leonchik, B.I., Engineer

TITLE:

Laws Governing The Atomizing of a Superheated Liquid

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1959, Nr 10, pp 76-83

ABSTRACT:

The results of an investigating of the hydrodynamic peculiarities of atomizing superheated liquids are published in this article. When heating a solution to a temperature of 300-330°C (preventing boiling by applying the proper pressure in the pipeline) prior to atomizing, the specific volume increases by approximately 1.5 times, the kinematic viscosity decreases (by 6-5 times) and the surface tension is less (by 10-12 times). Peculiar hydrodynamic conditions are created by the practically instantaneous boiling of the superheating liquid upon leaving the atomizer. They determine the structure of the spray cone and influence the seconda-

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Laws Governing The Atomizing of a Superheated Liquid

ry dispersion of the drops. The process of atomizing superheated solutions differs considerably from the atomizing of a cold liquid due to changes in thermophysical and hydromechanical conditions. The investigations were performed on an experimental installation which was different from the one described by the same authors / Ref 1 / only in performing the atomization in a cylindrical, vertical drying chamber of 800 mm diameter and 2.3 m height. Preliminary tests / Ref 1 7 showed that a conical nozzle had the best characteristic as an atomizer, creating a very high degree of dispersion and greater spray cone angles of the atomized matter. Its design is simple compared to other atomizer types. Geometrically similar nozzles with different diamters of the minimum profile were used (0.28, 0.35, 0.44, 0.63, and 0.805 mm). The flow factor for these nozzles was 0.8-0.95, depending upon the temperature of the solution and increasing together with it. The liquid to be atomized consisted of

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Laws Governing The Atomization of a Superheated Liquid

ordinary water and an inorganic salt solution having a specific gravity of 1.36 (concentration 500 g/1). The investigations were conducted at pressures of 90-150 atmospheres and at liquid temperatures of 160-320° C. The dispersion of drops and the density of the spray were investigated by microphotographs and other aids. The formation of drops in the spray cone is a result of a complicated separation and fusion process of the primary drops. The pulsation of the drop motion, and the impossibility of formulating boundary conditions in the development of the process exclude a complete analytical solution of this problem. Theoretical investigations of G.I. Petrov and T.D. Kalinina / Ref 67, B.D. Katsnel'son and V.A. Shvab / Ref 57 and other investigators show the possibility of using existing equations, describing the disintegration process of a flow with the aid of the theory of similarity. The authors of this paper noticed a practically constant flow of the superheated liquid thru the conical nozz-

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Laws Governing the Atomization of a Superheated Liquid

le. This observation and theoretical assumptions of I. L. Perl'man / Ref 87 lead to the conclusion that the boiling of the liquid starts outside the nozzle. The principal laws governing theatomizing of a superheated liquid by conical nozzles were established by the authors as a result of their investigations. They obtained formulas for calculating the mean volume-surface diameter of drops, for calculating the atomizing spectrum and graphs of local spray cone densities. This paper was presented by the Kafedra sushil'nykh i teploobmennykh ustroystv (Chair of Drying and Heat Exchanging Devices). There are 2 diagrams, 3 graphs and 10 Soviet references.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut
(Moscow "Order of Lenin" Institute of Power Engineering)

SUBMITTED: May 23, 1959

Card 4/4

9 (2)

507/143-59-10-19/22

AUTHORS:

Lebedev, P.D., Doctor of Technical Sciences, Professor. and Verba, M.I., Candidate of Technical Sciences, Docent

TITLE:

The Application of Infrared Radiation in Engineering

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika,

1959. Nr 10, pp 108-113

ABSTRACT:

This review contains some data on the design of radiant heat sources which found application in foreign engineering (USA, West Germany, German Democratic Republic, etc). It is based on the monograph by Dr. W. Borchert and Dr. K. Junbitz Ref 17. Fig 4 shows a ceramic radiator of the type produced by a Leipzig instrument building plant and by the Teltow plant of communication engineering parts in the German Democratic Republic. There are 9 photographs, 3 diagrams and 6 references, 2 of which are English and 4 German.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut (Moscow - Order of Lenin- Power Engineering Institute

-LEBEDEV, P.D.; SHISHKOV, S.V.

기원을 통해 중독표를 받는다.

Effect of contact heat supply during the radiation drying of moist materials. Inzh.-fiz.zhur. no.7:17-21 Jl '60. (MIRA 13:7)

1. Energeticheskiy institut im. G.M.Krzhizhanovskogo, g.Moskva. (Materials--Drying) (Heat--Radiation and absorption)

LEBEDEV. P. D., and Leonchik, B. L.

"Spray Drying of Overheated Solutions."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

AUTHOR:

Lebedev, P. D., Doctor of Technical Sciences, Professor, Chairman of the Scientific and Technical Council of the Ministry of Higher and Secondary Special Education

TITLE:

Contribution of university scientists to theory and practice

PERIODICAL:

Vestnik vysshey shkoly, no. 5, 1961, 90-96

TEXT: This article deals with the contribution of Soviet schools of higher education to science and national economy. The collective comprises nearly 150,000 scientific and pedagogical collaborators of schools of higher education, among them about half of all Professors and Doctors of Sciences of the USSR. Among them are names of worldwide renown which are leading personalities in their special fields. To these belong Academicians AS USSR A. Ye. Arbuzov, B. A. Arbuzov, A. A. Balandin, N. N. Bogolyubov, S. I. Vol'fkovich, V. A. Kargin, M. V. Kel'dysh, V. A. Kotel'nikov, A. N. Kolmogorov, M. P. Kostenko, V. D. Kuznetsov, A. N. Nesmeyanov, I. G. Petrovskiy, L. I. Sedov, N. N. Semenov, S. L. Sobolev, A. N. Terenin, V. A. Fok; Corresponding Members AS USSR V. S. Dzhelepov, V. A. Kirillin, V. V. Korshak, N. N. Nekrasov, G. A.

Card 1/7

Contribution of ...

Razuvayev, C. A. Reutov, S. E. Frish. Besides research work and pedagogical activity, many scientists at schools of higher education established scientific teams. Famous all over the world are the mathematical teams of Moskovskiy (Moscow) and Leningradskiy (Leningrad) universitet (University), and also the scientific team of mathematicians which has been established by Professor T. A. Sarymsakov at Tashkentskiy universitet (Tashkent University). The scientific teams of physicists, chemists, and mechanical engineers at Moscow, Leningrad, Khar'kovskiy (Khar'kov), Kazanskiy (Kazan'), Tomskiy (Tomsk), and other universities are recognized authorities. Many Lenin prize winners are among the scientists at schools of higher education: S. N. Vernov, Professor at Moscow University, A. Ye. Chudakov, Doctor of Physical and Mathematical Sciences, I. R. Shafarevich, Professor at Moscow University, Academician N. N. Bogolyubov, Head of the kafedra statisticheskoy fiziki MGU (Department of Statistical Physics, Moscow State University), G. A. Razuvayev, Professor at Gor'kovskiy (Gor'kiy University), Academician M. P. Kostenko at the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic Institute), as well as the following Professors at Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering): V. A. Venikov, M. P. Vukalovich, Corresponding Member AS USSR V. A. Kirillin, A. Ye. Sheyndlin. The Lenin

Card 2/7

Contribution of ...

Prize of 1961 was awarded to the following scientists: Academician A. F. Ioffe (deceased), A. V. Ivanov, Professor at Leningrad University, Yu. I. Lozovoy, Docent at the L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute), the two Professors at the Krasnodarskiy institut pishchevoy promyshlennosti (Krasnodar Institute of the Food Industry) G. G. Agabal'yants and Docent A. A. Merzhanian, and many others. Many problems worked out at schools of higher education have already been adopted by the Soviet economy and stood the practical tests. Studies in the field of steam turbines for remote heating systems have been brought to an end in 1960 at the Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic Institute). The collective at the Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnic Institute) developed and put into operation the largest high-voltage pulse generator in the world, supplying 7.6 million volts. A high-power rectifying column with exchange plates has been developed at the Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machinery). Moreover, machines, devices, new materials and processes have been worked out at schools of higher education. In this connection, the following schools are mentioned: Moskovskiy gornyy institut imeni I. V. Stalina (Moscow Mining Institute imeni I. V. Stalin), Leningradskiy tekhnologicheskiy

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Contribution of ...

institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet), and Yaroslavskiy tekhnologicheskiy institut (Yaroslavl' Technological Institute). Schools of higher education have greatly contributed to the development of space engineering, whereby the space flight of Yuriy Gagarin was made possible. During the last few years, many special, technical, and other laboratories have been established at schools of higher education. At some of them, e.g., the Moscow and Gor'kiy University as well as the Tomskiy politekhnicheskiy institut (Tomsk Polytechnic Institute), new scientific research institutes have been established. The number of schools of higher education increases from year to year. The results of their work will be shown at the Exhibition of the Achievements of the Soviet National Economy (VDNKh), at which more than 200 exhibits from 70 schools of higher education were on show last year. Many of them were awarded diplomas and medals of the VDNKh. The work of scientists of Soviet schools of higher education has also found much appreciation in foreign countries. Particular interest was paid to exhibits shown by the Tomsk and L'vov Polytechnic Institutes, as well as by the Kuybyshevskiy aviatsionnyy institut (Kuybyshev Aviation Institute), Many teachers and scientific collaborators of schools of higher education attend international congresses, meetings, and symposia every year. In order Card 4/7

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Contribution of ...

to coordinate scientific work, the Nauchno-tekhnicheskiy sovet Ministerstva vysshego i srednego spetsial'nogo obrazovaniya SSSR (Scientific and Technical Council of the Ministry of Higher and Secondary Special Education USSR), together with the Akademiya nauk SSSR (Academy of Sciences USSR), specified the tasks of the most important scientific research work. Between 1956 and 1960, the volume of research work performed under industrial contracts has increased three times from the financial point of view, and that not only at schools of higher technical education but also at some universities, Above all, this concerns work in the field of geology. The number of scientific research problems solved during the last ten years have risen two and a half times. Many of them have found practical application in Soviet economy. Between 1958 and 1960, more than 130 scientific conferences and sessions on topical problems have been held by schools of higher education; they were attended also by delegates of universities, special scientific research institutes, ministries, sovnarkhoz, industrial establishments, and by foreign scientists: 1249 delegates attended the Third Conference of Schools of Higher Education on Modern Dielectric and Semiconductor Engineering, held at the Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute imeni V. I. Ul'yanov (Lenin)) in 1960.

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Contribution of ...

More than 1000 delegates attended the Fourth Conference of Schools of Higher Education on Radio Electronics at Khar'kov University. The All-Union Ornithological Conference of Moscow University was attended by 800 persons, 443 of which came from Union republics, 17 from people's republics, and 14 from capitalist countries. The conferences of schools of higher education at Ryazan' on the topic "The Communist Party as the organizer of the great boom of the socialist agriculture of the USSR"; at Alma-Ata on the topic "The struggle of the CPSU for the conversion of the eastern districts of the country into a granary"; in Minsk on the topic "Communist working brigades and their role in the evolution of the Communist conception of work"; and the conference on the application of physical and mathematical simulation to electrotechnical problems, which was held at the Moscow Institute of Power Engineering, have been very successful. The Ministry of Higher and Secondary Special Education USSR has been publishing periodicals on all fields of science since four years: "Izvestiya vysshikh uchebnykh zavedeniy" (22 series) and "Nauchnyye doklady vysshey shkoly" (5 series). Schools of higher education, among them 10 in Moscow and 19 outside the capital, have been entrusted with the publication of various series of periodicals, Finally, the author emphasizes the necessity of consolidating the success achieved by

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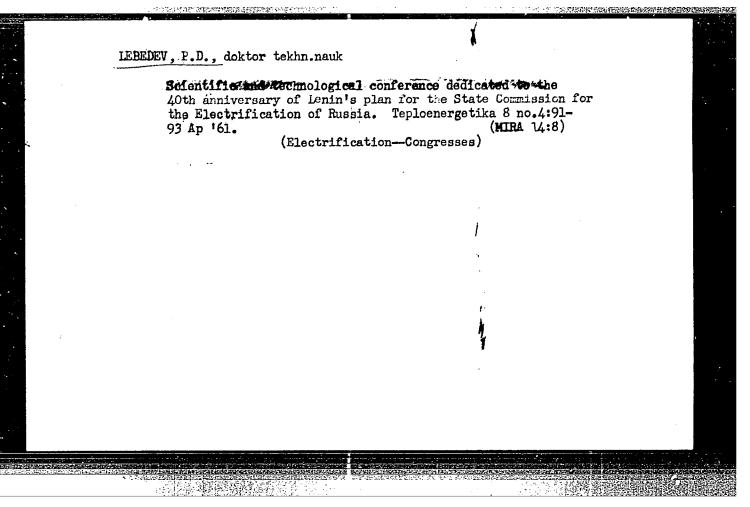
Contribution of ...

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schools of higher education in the field of scientific work, as well as of eliminating the existing shortcomings.

ASSOCIATION: Nauchno-tekhnicheskiy sovet Ministerstva vysshego i srednego spetsial'nogo obrazovaniya SSSR (Scientific and Technical Council of the Ministry of Higher and Secondary Special Education USSR)

Card 7/7



CRICOR'YEV, V.A., kand. tekhn. nauk; KOLACH, T.A., dots.;
SOKOLOVSKIY, V.S., assistent; TEKKIH, R.M., inzh.;
LEBEDEV, P.D., doktor tekhn. nauk, prof., red.;
ANTIKAYH, P.A., red.; DORUNOV, N.L., tekhn. red.

[Concise annual on heat exchangers]Kratkii spravochnik po
teploobmennym apparatam. By V.S.Grigor'ev i dr. Pod red.
P.D.Lebedeva. Moskva, Gosonergoizdat, 1962. 255 p.

(MIRA 15:9)

(Heat exchangers)

NESTERENKO, Aleksey Vladimirovich; LEBEDEY, P.D., doktor tekhn. nauk, profes retsenzent; DROZDOV, V.F., kand. tekhn. nauk, dots., retsenzent; IVANOV, V.G., nauchnyy red.; MARTYNOV, A.P., red. izd-vn; MURASHOVA, V.A., tekhn. red.

[Principles of thermodynamical calculations in air corditioning and ventilation]Osnovy termodinemicheskikh raschetov ventiliatiii i konditsionirovaniia vozdukha. Moskva, Vysshaia shkola, 1962. 354 p. (MIRA 15:9)

l. Zaveduyushchiy kafedroy "Otopleniya i ventilyatsii" Vsesoyuznogo zaochnogo inzhenerno-stroitel'nogo instituta (for Drozdov). (Heating and ventilation) (Air conditioning) (Ventilation)

LEBEDEV, P.D.; PAVLOVSKIY, L.L.

Radiant heat drying systems with gas heating. Lakokras.mat.i
ikh prim. no.3:60-66 '62. (NIRA 15:7)
(Infrared drying apparatus)
(Painting, Industrial)

LEBEDEV, Panteleymon Dmitriyevich; MIKHAYLOV, N.M., prof., retsenzent; GINZBURG, A.S., prof., retsenzent; LIKOV, M.V., dots., nauchnyy red.; LEONCHIK, B.I., dots., nauchnyy red.; LARIONOV, G.Ye., tekhn. red.

[Calculation and design of drying systems] Raschet i proektirovanie sushil'nykh ustanovok. Moskva, Gosenergoizdat, 1963. 319 p. (MIRA 16:3)

(Power engineering) (Drying)

VOLKOV, V.F., kand. tekhn. nauk; LEBEDEV, P.D., prof.; SORGI J. Ye.Ya.; STANIOV, M.A.; KOLACH, T.A., dotseat; IVANOV, A.N.; TIKE HITTON, I.G.; PAVEOV, M.N.

Training of engineers in the field of industrial power engineer'r'.

Prom. energ. 19 no.11:30-32 N *64. (MIR: 18:1)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova (for Volkov).
2. Moskovskiy ordena Lenina energeticheskiy institut (for Lebedev, Sokolov, Semenenko). 3. Fakul'tet promyshlennoy teploenergetiki Moskovskogo ordena Lenina energeticheskogo instituta (for Kolach). 4. Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel'skih rabot SSSR (for Ivanov). 5. Nauchno-issledovatel'skiy institut Soveta narodnogo khozyaystva SSSR (for Tikhomirov). 6. Gosudarstvennyy soyuznyy institut po proyektirovaniyu metallurgicheskikh zavodov (for Pavlov).

ACCESSION NR: AP5019080

UR/0286/65/000/012/0104/0104

AUTHORS: Leonchik, B. I.; Lebedev, P. D.; Danilov, O. L.

TITLE: A method for measuring the mean velocity of the motion of particles in a stream of broadly dispersed gas suspensions. Class 42, No. 172139

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 104

TOPIC TAGS: particle motion, velocity measurement

ABSTRACT: This Author Certificate presents a method for measuring the mean velocity of motion of particles in a stream of broadly dispersed gas suspensions. To simplify the measuring process, the particles are weighed consecutively. Some of the particles are captured in an immobile trap, some in a trap moving at a constant velocity against the stream. The particle velocity is determined from the difference in the weights of the particles captured in the movable and the immobile traps.

ASSOCIATION: none

SUBMITTED: 19Jun64

ENCL: 00

SUB CODE: NP, ME

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OTHER: OCC

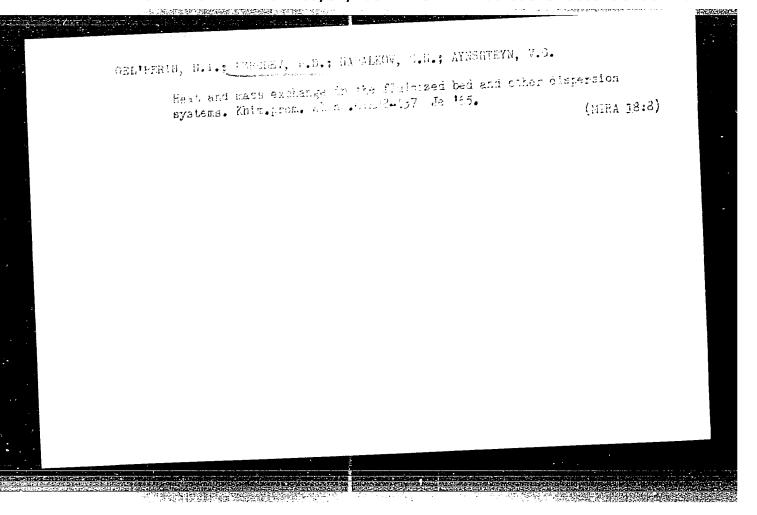
LYKOV, A.V.; SHEVEL'KOV, V.L.; NESTERENKO, A.V.; LEBEDEV, P.D.; MAKSIMOV, G.A.; NIKITINA, L.M.

IUrii Leonidovich Kavkazov; on his 70th birthday. Inzh.-fiz.
zhur. 8 no.1:124-125 Ja '65.

(MIRA 18:3)

LYKOV, A.V.; LEBFDEV, P.D.; VUKALOVICH, M.P.; GINZBURG, A.S.; SMOL'SKIY, B.M.; SÖKÖLÖV, Ye,Ya,; SFMENENKO, N.A.; LYKOV, M.V.; LEONCHIK, B.I.; KRASNIKOV, V.V.; SHUMAYFV, F.G.; DREVS, G.V.

Georgii Aleksandrovich Maksimov; obituary. Inzh.-fiz. zhur. 9 no.3:418 S '65. (MIRA 18:9)



IEBEDEV, P.D., prof.; BUZ, M.A., inzh.

1967年 - 1967

A method of calculating the conditions of nondefective drying of ceramic wall materials on the basis of the theory of probability. Strci. mat. 11 no.8:12-14 Ag '65. (MIRA 18:9)

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	ACC NR: AP6024636 SOURCE CODE: UR/0170/66/011/001/0037/0041	
	AUTHOR: Lebedev, P. D.; Leonchik, B. I.; El'perin, I. T.	.19
	ORG: Power Engineering Institute, Moscow (Energeticheskiy Institut); Heat and Mass Transfer Institute, AN BSSR, Minsk (Institut Teplo- i	
	Massoobmena AN BSSR)	
	TITLE: Determination of transport potential fields in flow of coarsely dispersed gas suspensions Λ	_
	SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 1, 1966, 37-41	
	TOPIC TAGS: combustion, spray flame, two phase flow, gos flow, areng &	•
	Appropriate A theoretical and experimental study was made of the	•
	interphase energy transport in coarsely dispersed systems. In the	
	homogenous with sources and sinks of matter. The redistribution of the	-
	place due to the interaction of the phases. A differential taiorimeter	
	of a compensation method. The generalized data on the local transport processes can be used for calculating spray flames Worig. art. has: 4	
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